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Series B
Plant Nematology

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Series B Plant Nematology

is a quarterly journal prepared by the
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in association with the CAB International Institute of Parasitology

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ERRATA

(Lines are counted from the beginning of the bibliographic data in each item)

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Page	*Abstract*	*Line*	
6	37	10	for '*Pratylenchus vanderbrandei*' read '*Paratylenchus vanderbrandei*'
39	340	7	insert '[*Azadirachta indica*]' after 'neemcake'
89	781	10	for '*P. brachyurus* and P. coffeae' read '*Pratylenchus brachyurus* and *Pr. coffeae*'
91	797	15	for '*Trophotylenchus*' read '*Trophotylenchulus*'
115	1013	7	for '*M. artiella*' read '*M. artiellia*'
119	1056	10	insert '(*X. brasiliense, X. brevicolle, X. dimidiatum, X. elongatum, X. surinamense, X. vulgare and X. paritaliae*) after 'Several species'
121	1075	6	for '[*Vigna unguiculata*]' read '[*Cicer arietinum*]'
160	1416	9	for '*H. wahiji*' read '*H. wajihi*'

NOTES TO READERS

Helminthological Abstracts, Series B, Plant Nematology

Helminthological Abstracts, Series B, Plant Nematology provides a quarterly summary of the recent literature on all aspects of work on nematodes parasitic in or on plants, including morphology, taxonomy and nomenclature, techniques, cytology, genetics, biochemistry, development, life-history, ecology, host resistance, interactions with other pathogens and the pathology, epidemiology and control of the infections they cause.

Coverage also includes literature on free-living nematodes in marine or fresh water or in the soil, and on nematodes parasitic in insects and other invertebrates as final hosts. Coverage of the literature on nematodes of animals and man will be found in Helminthological Abstracts, Series A, Animal and Human Helminthology.

The abstracts enable readers to keep themselves informed of the progress of current work and allow them to decide whether or not they need to see the original document.

Photocopies of most of the papers abstracted are obtainable through the Library of the CAB International Institute of Parasitology.

Over 2000 serial publications as well as books, reports and theses are regularly examined for relevant material, principally research findings and reviews. Some background papers may be abstracted briefly and others of local or marginal interest are referred to by title only.

When consulting an entry the reader should remember that the title is an integral part of the abstract and may include information necessary for its full comprehension.

In a typical entry the name(s) of the author(s) are followed by the title of the paper in English. If the paper is written in a language other than English, the English translation of the title is given in square brackets. The title in the original language, if not English, follows, except for Arabic, Chinese, Japanese etc. Cyrillic characters are transliterated for the titles of books but not for the titles of papers. Journal titles are next given in unabbreviated form. The year of issue, in round brackets, the volume number, part number in round brackets, and first and last page numbers of the article complete the basic citation.

Supplementary details given in square brackets include the language of the paper (a two letter abbreviation with an initial capital) and the language of any summary or summaries in languages other than that of the paper (a similar abbreviation without an initial capital); the number of references, plates , figures, graphs, maps, tables may also be included. The address of the first author is given. Some commonly used abbreviations are listed below.

Conference papers, whether published in book form or as proceedings, appear either as a single general abstract under the classification "Conferences" or as a number of abstracts under appropriate classifications with a single general entry under "Conferences".

Every effort is made to achieve consistency in the nomenclature of nematodes. Preferred names, as defined by the International Commission for Zoological Nomenclature, are used in the abstracts, sometimes introduced by square brackets, and also in the subject index. Hosts are usually given as in the original paper although an effort is made to use the Latin name, if it is known, in preference to the common name. Only the well known crops are referred to by their common names.

Nematicides and other pesticides used for, or associated with, the control of nematodes are given in the same form as in the original paper, including the proprietary name if stated. Where necessary, a preferred name is added in square brackets, and this preferred name is used in the index.

Abstracts are arranged under classifications that reflect the main emphasis of the work. When more than one aspect is covered in a paper there may be a cross reference between classifications but the abstract will appear only once. However, the classification "Taxonomy and Nomenclature" has highest priority so that abstracts containing descriptions of new taxa will appear in this section even if the main part of the work may be appropriate to some other classification. The classification must be seen as a rough guide only and reference should be made to the subject index for more specific searching.

The subject index is a parasite-orientated index, so that entries are under parasite and host rather than disease. Thus all papers on White Tip Disease of rice will be indexed under the name of the causative nematode, Aphelenchoides besseyi.

Access to most of the papers abstracted since 1930 is available within the CAB International Institute of Parasitology with the aid of cumulated indices, and, along with extensive library holdings of journals, books and reprints, these represent one of the world's most significant collections of information on parasitology. Readers are encouraged to write to the Institute if they have any problems with the nematological literature or to visit the library themselves to carry out bibliographical research.

On-line facilities are also available for searching all abstracts published since 1973. From time to time, review articles by authoritative authors are published.

Abbreviations

a.i.	active ingredient
coeff.	coefficient
conc.	concentrated
concn	concentration(s)
CV	coefficient of variation
DM	dry matter
DW	dry weight
ED	effective dose
ELIEDA	enzyme-linked immunoelectrodiffusion assay
ELISA	enzyme-linked immunosorbent assay
EM	electron microscope
FW	fresh weight
Hm/B	Helminthological Abstracts, Series B
ID	infective dose
IU	international unit
J_2	2nd-stage juvenile(s)
LC	lethal concentration
LD	lethal dose
LT	lethal time
*comb. nov.	new combination
*fam. nov.	new family
*gen. nov.	new genus
nom. nov.	nomen novum
nom. nud.	nomen nudum
n.s.d.	no significant difference
*sp. nov.	new species
*subsp. nov.	new subspecies
PAGE	polyacrylamide gel electrophoresis
RH	relative humidity
SEM	scanning electron microscope
syn.	synonym
sp. inq.	species inquirenda
str.	strain
TEM	transmission electron microscope

*New abbreviations, introduced 1989.

Languages

An initial capital denates the language of the paper, an initial small letter the language of the summary.

Af	Afrikaans	Fi	Finnish	Nl	Dutch
Al	Albanian	Fr	French	No	Norwegian
Ar	Arabic	Gr	Greek	Pe	Persian
Az	Azerbaijani	He	Hebrew	Pl	Polish
Be	Byelorussian (White Russian)	Hu	Hungarian	Pt	Portuguese
Bg	Bulgarian	Ia	Interlingua	Ro	Romanian
Ch	Chinese	In	Indonesian	Ru	Russian
Cs	Czech	Is	Icelandic	Sh	Serbo-Croat (either script)
Da	Danish	It	Italian	Sk	Slovak
De	German	Ja	Japanese	Sn	Slovene
Ee	Estonian	Ko	Korean	Sv	Swedish
En	English	La	Latin	Ta	Tajik
Eo	Esperanto	Li	Lithuanian	Tr	Turkish
Es	Spanish	Lv	Latvian	Uk	Ukrainian
		Ma	Macedonian		

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CAB International (CABI) is a not-for-profit, intergovernmental organization registered with the United Nations. It is owned and administered by its member governments; these currently number 28, but membership is open to all governments who wish to participate. Established in 1928, the organization provides information, scientific, and development services for agriculture and allied disciplines throughout the world.

Information Services

The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine. Abstract journals derived from the database, and online access to it, provide a unique source of information for research scientists, development planners, educators and students. Subsidiary but growing tasks are the publication of primary journals and reference works, and training information professionals in developing countries.

The Accessions Unit acquires the relevant scientific and technical literature for abstracting by almost 100 scientists/linguists in the following 11 Bureaux:

Agricultural Economics
Animal Breeding & Genetics
Animal Health
Dairy Science & Technology
Nutrition
Pastures & Field Crops
Crop Protection
Horticulture & Plantation Crops
Plant Breeding & Genetics
Soils
Forestry

Further material is acquired and processed by collaborating or contracted organizations. Other staff coordinate work on specialized directories and databanks, and commission new books and primary journals. The Publications Unit is responsible for printing the journals and books, and the Marketing & Sales Division promotes and sells Information Services products and services worldwide.

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CAB International Institute of Entomology (CIE), Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

CAB International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St. Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

CAB International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

Development Services (CDS), Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services.

Library Services, Manager Mr C.J. Hamilton, have their headquarters with CIBC at Silwood Park, where the main Library is held, with additional literature collections at CMI, CIP, CDS and CABIC. Library Services operate a Document Delivery Service.

Systems

The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computing facility with telecommunications access to seven remote sites, including the four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by advanced office automation facilities. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and PAGER for typesetting and information retrieval.

The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CABI bibliographic database and associated functions, plus accessions control, subscription management and electronic publishing.

C·A·B INTERNATIONAL INFORMATION SERVICES
PRODUCTS AND SERVICES

Almost 100 scientists/linguists in the 11 Bureaux of CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 10000 serials and many other publications are scanned, and approximately 130000 bibliographic records are compiled each year. From this computerized database is derived a wide range of information services and products in hard copy and machine-readable form, designed to meet a variety of customer needs.

HARD COPY PRODUCTS

Abstract journals

The following abstract journals on specific disciplines, specialist crops or products, or particular livestock are published, mostly monthly or quarterly. Each has author and subject indexes, cumulated annually in a special issue of the journal.

Animal Science and Production
Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts & Reviews, Series B–Livestock Feeds & Feeding; Pig News & Information; Poultry Abstracts.

Veterinary Science and Parasitic Diseases
Animal Disease Occurrence; Helminthological Abstracts, Series A–Animal & Human Helminthology; Index Veterinarius; Protozoological Abstracts; Review of Applied Entomology, Series B–Medical & Veterinary; Review of Medical & Veterinary Mycology; Small Animal Abstracts; Veterinary Bulletin.

Crop Science and Production
Cotton & Tropical Fibres Abstracts; Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Lentil Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soyabean Abstracts; Tropical Oil Seeds Abstracts; Wheat, Barley & Triticale Abstracts.

Forestry
Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.

Crop Protection
Biocontrol News & Information; Helminthological Abstracts, Series B–Plant Nematology; Review of Applied Entomology, Series A–Agricultural; Review of Plant Pathology; Weed Abstracts.

Economics, Development and Sociology
Leisure, Recreation & Tourism Abstracts; Rural Development Abstracts; Rural Extension, Education & Training Abstracts; World Agricultural Economics & Rural Sociology Abstracts.

Machinery and Buildings
Agricultural Engineering Abstracts.

Human Nutrition
Nutrition Abstracts & Review, Series A–Human & Experimental.

Biotechnology/Biodeterioration
AgBiotech News & Information; Biodeterioration Abstracts.

Also published is a new series of current awareness publications (CAB Prompts) on specific crops. Subject indexes are not provided. Titles in the series so far are: *Groundnuts* and *Chickpeas/Pigeonpeas*.

Many retrospective compilations of abstracts (Annotated Bibliographies) on various topics are available on demand.

SDI Service

SDI (Selective Dissemination of Information) is a regular current awareness service based on the most recent input to the database. Subscribers decide their own search profile and receive search results at intervals of their own choice, either as computer printout or on floppy discs suitable for most microcomputers. Airmail ensures fast delivery.

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This is a special SDI service providing subscribers each month with the search results from standard profiles chosen by CABI. Numerous titles are available and the list is regularly updated to reflect new subject interests. Output is available on computer printout posted by airmail.

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The machine-readable database, known as CAB ABSTRACTS, is publicly accessible online through DIALOG Information Services (USA), BRS Information Technologies (USA), ESA-IRS (Italy), DIMDI (GFR), JICST (Japan), CAN-OLE (Canada) and Tsukuba Daigaku (Japan). The whole database back to 1973 contains over 2 million records. Search aids include the CAB ABSTRACTS Online Manual, the CAB Thesaurus (1988 Edition) and the CAB International Serials Checklist (1988).

Magnetic tapes

Organizations with access to mini or mainframe computers may lease all or part of CAB ABSTRACTS on magnetic tape. Update tapes are issued monthly, and retrospective tapes as required.

OTHER PRODUCTS AND SERVICES

Document Delivery Service

Photocopies of originals of most articles included in the database are available from CABI Library Services, Silwood Park, Ascot, UK. Documents may also be ordered online via DIALOG's DIALORDER or ESA/IRS's PRIMORDIAL.

Books and serial publications

CABI publishes authoritative reference books, directories and serial publications, the latter including *Bulletin of Entomological Research, Index of Current Research on Pigs, Distribution Maps of Pests, Distribution Maps of Plant Diseases, Bibliography of Systematic Mycology, Descriptions of Pathogenic Fungi & Bacteria, Index of Fungi,* and *Systema Ascomycetum*. CABI is a co-sponsor of the International Food Information Service which publishes *Food Science & Technology Abstracts*.

HELMINTHOLOGICAL ABSTRACTS SERIES B, PLANT NEMATOLOGY

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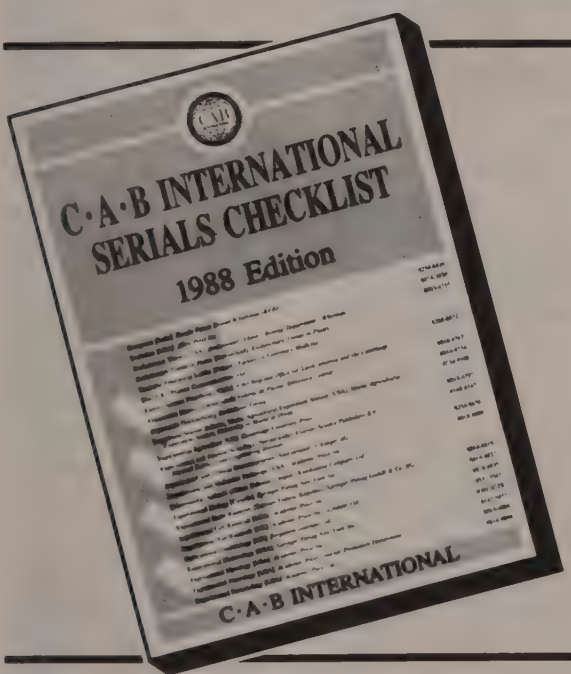

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Listed below are the titles of the serial publications (excluding most annual reports and conference proceedings) abstracted during 1988 for this journal. All the titles are given in full, except abbreviated titles taken from secondary publications such as *Referativnyi Zhurnal*.
Many other serials were scanned during 1988 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSNs and publishers' addresses. See a separate page of this Index for details.

Acarologia
Acta Academiae Agriculturae ac Technicae Olstenensis, Agricultura
Acta Agriculturae Boreali-Sinica
Acta Agriculturae Universitatis Pekinensis
Acta Agriculturae Universitatis Zhejiangensis
Acta Entomologica Sinica
Acta Horticulturae
Acta Oecologica, Oecologia Applicata
Acta Phytopathologica Sinica
Acta Phytophylactica Sinica
Acta Societatis Botanicorum Poloniae
Advances in Ecological Research
Advances in Microbial Ecology
African Journal of Agricultural Sciences
Agri Hortique Genetica
Agricontact
Agricultura Revista Agropecuaria
Agricultura Tecnica
Agricultura Técnica en México
Agricultural and Biological Chemistry
Agricultural Record, Australia
Agricultural Research Journal of Kerala
Agricultural Research Review
Agricultural Research, USA
Agricultural Reviews
Agricultural Systems
Agricultural Zoology Reviews
Agriculture, Ecosystems and Environment
Agrivita
Agroborealis
Agronômico
Agronomie
Agronomy Journal
Agrotecnia de Cuba
Ahboroti Akademijai Fanḫoi RSS Toçikiston, Šū"bai Fanḫoi Biologija
Alexandria Journal of Agricultural Research
Allattani Közlemények
American Potato Journal
Anais da Sociedade Entomológica do Brasil
Anales de Edafología y Agrobiología
Anhui Agricultural Science
Annales Agriculturae Fenniae
Annales de l'Institut Phytophathologique Benaki
Annali della Facolta' di Agraria, Universita degli Studi di Perugia.
Annals of Agricultural Research
Annals of Agricultural Science, Ain Shams University
Annals of Agricultural Science, Moshtohor
Annals of Applied Biology
Annals of Applied Nematology
Annals of Biology
Annals of the Entomological Society of America
Annals of the Phytopathological Society of Japan
Antonie van Leeuwenhoek
Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz
Applied Entomology and Zoology
Arab Gulf Journal of Scientific Research. B (Agricultural and Biological Science)
Arboriculture Fruitière
Archiv für Acker- und Pflanzenbau und Bodenkunde
Archiv für Phytopathologie und Pflanzenschutz
Archives of Environmental Contamination and Toxicology
Arkansas Farm Research
ASEAN Plant Quarantine Centre and Training Institute. Pest Data Sheet
Aspects of Applied Biology
Australasian Plant Pathology
Australian Forest Research
Australian Journal of Biological Sciences
Australian Journal of Ecology
Australian Journal of Experimental Agriculture
Bangladesh Journal of Botany
Bangladesh Journal of Zoology
Behavioral Ecology and Sociobiology
Beijing Plant Pathology
Bibliographies and Literature of Agriculture, US Department of Agriculture
Biochemical Journal
Biochemical Society Transactions
Biochemie und Physiologie der Pflanzen
Biochemistry, USA
Biochimica et Biophysica Acta, N (Gene Structure and Expression)
Biocontrol News and Information
Biológia, Czechoslovakia
Biological Agriculture and Horticulture
Biological Wastes
Biológico
Biologiya Morya, Vladivostok
Biology and Fertility of Soils
Biomass
Biotekhnologiya & Biotekhnika
Biuletyn Warzywniczy
Boletín de PROMECAFE
Boletín de Sanidad Vegetal, Plagas
Bragantia
British Sugar Beet Review
Bulletin du Myséum National d'Histoire Naturelle, A (Zoologie, Biologie et Ecologie Animales)
Bulletin OEPP
Bulletin of Entomology
Bulletin of Environmental Contamination and Toxicology
Bulletin of Fukuoka-ken Forest Experiment Station, Japan
Bulletin of the Kyoto University Forests
Bulletin of the World Health Organization
Bulletin SROP
Bulletin, Alabama Agricultural Experiment Station, Auburn University
Bulletin, Florida Department of Agricultural and Consumer Services
Byulleten Moskovskogo Obshchestva Ispytatelei Prirody, Biologicheskii
Byulleten' Glavnogo Botanicheskogo Sada
Byulleten' Vsesoyuznogo Instituta Gel'mintologii im. K.I. Skryabina
Cahiers de Biologie Marine
California Agriculture
Canadian Journal of Forest Research
Canadian Journal of Plant Pathology
Canadian Journal of Plant Science
Canadian Journal of Soil Science
Canadian Journal of Zoology
Caribbean Plant Protection Newsletter
Cell Motility and the Cytoskeleton
Ceres, FAO
China Fruit Tree
Chinese Journal of Biological Control
Chinese Journal of Zoology
Ciência Biológica, Ecology and Systematics
Ciencias de la Agricultura
CIP Circular, International Potato Center
Citrus and Subtropical Fruit Journal
CMU Journal of Agriculture, Food and Nutrition
Colloques de l'INRA
Colture Protette
Comparative Biochemistry and Physiology, B (Comparative Biochemistry)
Comptes Rendus de l'Académie des Sciences, III (Sciences de la Vie)
Comptes Rendus de l'Académie des Sciences, Série Générale, la Vie des Sciences
Coton et Fibres Tropicales
Crop Improvement
Crop Protection
Crop Research
Crop Science
Current Research Reporter, Mahatma Phule Agricultural University
Current Research, University of Agricultural Sciences, Bangalore
Current Science, India

Deep-Sea Research, A
Deutsche Entomologische Zeitschrift
Development
Developmental Biology
Difesa delle Piante
Dissertation Abstracts International, B (Sciences and Engineering)
Doklady Akademii Nauk Ukrainskoĭ SSR, Seriya B
Eesti NSV Teaduste Akadeemia Toimetised, Bioloogia
Egyptian Journal of Phytopathology
Ekologia Polska
Entomologist's Monthly Magazine
Entomophaga
Environmental Entomology
Environmental Health Criteria
EPPO Publications, B
EPPO Publications, C
Estuarine, Coastal and Shelf Science
Euphytica
FABIS Newsletter, Faba Bean Information Service, ICARDA
FAO Plant Production and Protection Paper
FAO Plant Protection Bulletin
FEBS Letters
FEMS Microbiology Ecology
Fitopatología
Fitopatologia Brasileira
Florida Entomologist
FONAIAP Divulga
Forest Pest and Disease
Forest Science and Technology
Forestry
Fragmenta Faunistica
Fruits
Frustula Entomologica
Gansu Agricultural Science and Technology
Gb + GW
Gene
Genes and Development
Genetical Research
Genetics
Genome
Geobios New Reports
Gesunde Pflanzen
Gidrobiologicheskiĭ Zhurnal
Grøn Viden, Landbrug
Grassland of China
Groenten en Fruit
Guangdong Agricultural Science
Guizhou Agricultural Science
Gujarat Agricultural University Research Journal
Harvest
Haryana Agricultural University Journal of Research
Haryana Journal of Horticultural Sciences
Hebei Journal of Agronomy
Heilongjiang Agricultural Science
Helgoländer Meeresuntersuchungen
Helminthologia
Henan Agricultural Science and Technology
Herald of Agricultural Sciences
Hojas Divulgadoras, Ministerio de Agricultura, Pesca y Alimentación, Spain
HortScience
IDIA
IITA Research Briefs, International Institute of Tropical Agriculture
Index to Theses Accepted for Higher Degrees in the Universities of Great Britain and Ireland
Indian Farming
Indian Journal of Entomology
Indian Journal of Experimental Biology
Indian Journal of Horticulture
Indian Journal of Medical Research
Indian Journal of Mycology and Plant Pathology
Indian Journal of Nematology
Indian Journal of Sericulture
Indian Phytopathology
Information Bulletin, Citrus and Subtropical Fruit Research Institute
Informatore Agrario
Informatore Fitopatologico
Informe da Pesquisa
Insect Knowledge (Kunchong Zhishi)
Insect Science and its Application
International Journal for Parasitology
International Nematology Network Newsletter
International Pest Control
International Pigeonpea Newsletter
International Rice Research Newsletter
Invertebrate Taxonomy
Investigaciones Forestales, Instituto Nacional de los Recursos Naturales Renovables y del Ambiente, Colombia
Italia Agricola
Izvestiya Akademii Nauk Azerbaidzhanskoi SSR
Izvestiya Akademii Nauk KazakhskoĭSSR, Biologicheskaya
Izvestiya Akademii Nauk Turkmenskoĭ SSR, Biologicheskikh Nauk
J. Tob. Sci. Technol.
Japan Pesticide Information
Japanese Journal of Nematology
Journal of Agricultural and Food Chemistry
Journal of Agricultural Science, UK
Journal of Agriculture - Western Australia
Journal of Agriculture of the University of Puerto Rico
Journal of Agronomy and Crop Science
Journal of Applied Ecology
Journal of Biological Chemistry
Journal of Coffee Research
Journal of Contaminant Hydrology
Journal of Ecology, China
Journal of Economic Entomology
Journal of Entomological Research
Journal of Entomological Science
Journal of Environmental Science and Health, B (Pesticides, Food Contaminants and Agricultural Wastes)
Journal of Fujian Agricultural College
Journal of Guangxi Agricultural College
Journal of Industrial Microbiology
Journal of Invertebrate Pathology
Journal of Medical Entomology
Journal of Molecular Biology
Journal of Molecular Evolution
Journal of Nanjing Forestry Institute
Journal of Nematology
Journal of Neuroscience
Journal of Parasitology
Journal of Pesticide Science
Journal of Phytopathology
Journal of Plant Protection in the Tropics
Journal of Plantation Crops
Journal of Research, Assam Agricultural University
Journal of Seed Technology
Journal of Shenyang Agricultural University
Journal of Soil Biology and Ecology
Journal of South China Agricultural University
Journal of the American Mosquito Control Association
Journal of the American Society for Horticultural Science
Journal of the Australian Institute of Agricultural Science
Journal of the Egyptian Society of Parasitology
Journal of the Iowa Academy of Science
Journal of the Japanese Forestry Society
Journal of Yunnan Agricultural University
Kartofel' i Ovoshchi
Kartoffelbau
Kartoffelforschung Aktuell
Kartoplyarstvo
Khelmintologiya
Koedoe
Korean Journal of Plant Protection
La Difesa delle Piante
Lighter
List of Intercepted Plant Pests, US Department of Agriculture
Madras Agricultural Journal
Marine Ecology Progress Series
Marine Environmental Research
Marine Geology
Marine Pollution Bulletin
Mechanisms of Aging and Development
Mededeling, Instituut voor Rationele Suikerproductie, Netherlands
Mededelingen van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent
Meditsinskaya Parazitologiya i Parazitarnye Bolezni
Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft, Berlin-Dahlem
Molecular and Cellular Biology
Molecular Pharmacology
Monthly Bulletin of the Bermuda Department of Agriculture and Fisheries
Mutation Research
Mycologia
Nachrichtenblatt des Deutschen Pflanzenschutzdienstes
Nachrichtenblatt für den Pflanzenschutz in der DDR
Narendra Deva Journal of Agricultural Research
Natural Enemies of Insects
Nature, UK
Naturwissenschaften
Nauchno-Tekhnicheskiĭ Byulleten' Sibirskogo Otdeleniya VASKhNIL
Nauchno-Tekhnicheskiĭ Byulleten' Vsesoyuznogo Ordena Lenina i Ordena Druzhby Narodov Nauchno-Issledovatel'skogo Instituta Rastenievodstva imeni N. I. Vavilova
Nauchnye Doklady Vysshei Shkoly, Biologicheskie Nauki
Nematologia Brasileira
Nematologia Mediterranea
Nematologica

Nematology Circular, Division of Plant Industry, Florida Department of Agriculture and Consumer Services
Nematology Newsletter
Netherlands Journal of Agricultural Science
Netherlands Journal of Plant Pathology
Neurochemistry International
New Zealand Forestry
New Zealand Journal of Zoology
Nova Hedwigia
Növénytermelés
Nucleic Acids Research
Obstbau
Ochrana Prírody
Ochrona Roślin
Oecologia
Ohio Journal of Science
Oléagineux
Pakistan Journal of Agricultural Sciences
Pakistan Journal of Forestry
Pakistan Journal of Nematology
Parasitology
Parazitologiya
PE&RS (Photogrammetric Engineering & Remote Sensing)
Pedobiologia
Pemberitaan Lembaga Penelitian Tanaman Industri, Bogor, Indonesia.
Perspectives Agricoles
Pertanika
Pesticide Biochemistry and Physiology
Pesticide Science
Pesticides
Pflanzenschutzberichte
Philippine Agriculturist
Philippine Journal of Crop Science
Philosophical Transactions of the Royal Society of London, B (Biological Sciences)
Photochemistry and Photobiology
Physiological and Molecular Plant Pathology
Phytoma
Phytoparasitica
Phytopathology
Phytophylactica
Phytoprotection
PKV Research Journal
Plant and Soil
Plant Breeding
Plant Cell Reports
Plant Disease
Plant Pathology
Plant Physiology
Plant Protection
Plant Protection Bulletin, India
Plant Protection Quarterly
Plant Protection, Beijing, China
Plant Quarantine Leaflet, Australia
PLANTI News
Pol'nohospodárstvo
Polar Biology
Potato Research
Proceedings of the Annual Congress, South Africa Sugar Technologists' Association
Proceedings of the Association for Plant Protection of Kyushu
Proceedings of the Biological Society of Washington
Proceedings of the Florida State Horticultural Society
Proceedings of the Helminthological Society of Washington
Proceedings of the National Academy of Sciences of the United States of America
Proceedings, American Peanut Research and Education Society
Proceedings, Soil and Crop Science Society of Florida
Progrès Agricole et Viticole
Progress and Topics in Cytogenetics
Prophyta
Publication Trimestrielle, Institut Royale Belge pour l'Amélioration de la Betterave
Quarterly Bulletin of the International Association of Agricultural Librarians and Documentalists
Quarterly Newsletter, Asia and Pacific Plant Protection Commission, FAO, Thailand
Rapport, Institutionen för Mikrobiologi, Sveriges Lantbruksuniversitet
Redia
Reference Book, MAFF, ADAS, Agricultural Science Service
Report of the Kyushu Branch of the Crop Science Society of Japan
Reporte de Investigación del Instituto de Investigaciones Fundamentales en Agricultura Tropical, Academia de Ciencias de Cuba
Research Bulletin of the Panjab University, Science
Research Bulletin, Central Potato Research Institute
Research Bulletin, Massachusetts Agricultural Experiment Station
Research on Biological Sciences
Research Report, Georgia Agricultural Experiment Stations
Research Report, Horticulture, An Foras Talúntais
Research Reports of the Rural Development Administration, Plant Environment, Mycology & Farm Products Utilization, Korea Republic
Researches on Population Ecology
Resúmenes Analíticos sobre Pastos Tropicales
Revista Ceres
Revista Cubana de Medicina Tropical
Revista de Agricultura, Piracicaba, Brazil
Revista de Investigacion, Centro de Investigaciones para la Regulación de Poblaciones de Organismos, Nocivos, Argentina
Revista Instituto Colombiano Agropecuario
Revue Agricole et Sucrière de l'Ile Maurice
Revue d'Ecologie et de Biologie du Sol
Revue de Nématologie
Revue Roumaine de Biologie, Biologie Animale
Revue Suisse de Viticulture, Arboriculture, Horticulture
Roczniki Nauk Rolniczych, A (Produkcja Roślinna)
Roczniki Państwowego Zakładu Higieny
Sborník ÚVTIZ, Ochrana Rostlin
Sborník Vědeckých Prací, Oseva, Výzkumný a Šlechtitelský Ústav Pícninářský, Troubsko u Brna
Science and Culture
Science, USA
Scientia Agricultura Sinica
Scientia Horticulturae
Seed Science and Technology
Sementi Elette
Shanxi Agricultural Science
Simiente
Soil & Tillage Research
Soil Biology & Biochemistry
South African Journal of Plant and Soil
South African Sugar Journal
Soybean Science
Special Circular, Ohio Agricultural Research and Development Center
Summa Phytopathologica
Surinaamse Landbouw
Sylwan
Systematic Parasitology
Tappi Journal
Technical Bulletin Agricultural Research Institute, Cyprus
Technical Communication, Department of Agriculture and Water Supply, South Africa
Technical Document, Asia and Pacific Plant Protection Commission, FAO
Tecnica Agricola
Testarea Pesticidelor
Tissue & Cell
Tobacco Research
Transactions of the British Mycological Society
Transactions of the Illinois State Horticultural Society
Tri-ology Technical Report
Tropical Agriculture, UK
Tropical Grasslands
Trudy Zoologicheskogo Instituta, Akademiya Nauk SSSR
Tuinbouwmagazine
Türkiye Bitki Koruma Dergisi
Türkmenistan SSR Ylymlar Akademijasynyn Habarlary, Biologik Ylymlaryn
Two and a Bud
Uzbekskii Biologicheskii Zhurnal
Växtskyddsnotiser
Vedecké Práce Vyskumného Ústavu Závlahového Hospodárstva v Bratislave
Verslagen en Mededelingen, Plantenziektenkundige Dienst te Wageningen
Vestnik Selskokhozyaïstvennoï Nauki Kuzakhstana
Vie et Milieu
Water Research
Weed Technology
World Agriculture
Zashchita Rastenii, Minsk
Zashchita Rastenii, Moscow
Zaštita Bilja
Zeitschrift für Pflanzenkrankheiten und Pflanzenschutz
Zentralblatt für Mikrobiologie
Zeszyty Problemowe Postępów Nauk Rolniczych
Zoologica Scripta
Zoologicheskii Zhurnal

C·A·B INTERNATIONAL INFORMATION SERVICES

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Almost 100 scientists/linguists in the 11 Bureaux of CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 10000 serials and many other publications are scanned, and approximately 130000 bibliographic records are compiled each year. From this computerized database is derived a wide range of information services and products in hard copy and machine-readable form, designed to meet a variety of customer needs.

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Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts & Reviews, Series B–Livestock Feeds & Feeding; Pig News & Information; Poultry Abstracts.

Veterinary Science and Parasitic Diseases
Animal Disease Occurrence; Helminthological Abstracts, Series A–Animal & Human Helminthology; Index Veterinarius; Protozoological Abstracts; Review of Applied Entomology, Series B–Medical & Veterinary; Review of Medical & Veterinary Mycology; Small Animal Abstracts; Veterinary Bulletin.

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Forestry
Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.

Crop Protection
Biocontrol News & Information; Helminthological Abstracts, Series B–Plant Nematology; Review of Applied Entomology, Series A–Agricultural; Review of Plant Pathology; Weed Abstracts.

Economics, Development and Sociology
Leisure, Recreation & Tourism Abstracts; Rural Development Abstracts; Rural Extension, Education & Training Abstracts; World Agricultural Economics & Rural Sociology Abstracts.

Machinery and Buildings
Agricultural Engineering Abstracts.

Human Nutrition
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Biotechnology/Biodeterioration
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CAB International (CABI) is a not-for-profit, intergovernmental organization registered with the United Nations. It is owned and administered by its member governments; these currently number 28, but membership is open to all governments who wish to participate. Established in 1928, the organization provides information, scientific, and development services for agriculture and allied disciplines throughout the world.

Information Services
The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine. Abstract journals derived from the database, and online access to it, provide a unique source of information for research scientists, development planners, educators and students. Subsidiary but growing tasks are the publication of primary journals and reference works, and training information professionals in developing countries.

The Accessions Unit acquires the relevant scientific and technical literature for abstracting by almost 100 scientists/linguists in the following 11 Bureaux:

Agricultural Economics
Animal Breeding & Genetics
Animal Health
Dairy Science & Technology
Nutrition
Pastures & Field Crops
Crop Protection
Horticulture & Plantation Crops
Plant Breeding & Genetics
Soils
Forestry

Further material is acquired and processed by collaborating or contracted organizations. Other staff coordinate work on specialized directories and databanks, and commission new books and primary journals. The Publications Unit is responsible for printing the journals and books, and the Marketing & Sales Division promotes and sells Information Services products and services worldwide (see inside back cover for details).

Scientific Services
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CAB International Institute of Entomology (CIE), Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

CAB International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St. Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

CAB International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

Development Services (CDS), Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services.

Library Services, Manager Mr C.J. Hamilton, have their headquarters with CIBC at Silwood Park, where the main Library is held, with additional literature collections at CMI, CIP, CDS and CABIC. Library Services operate a Document Delivery Service.

Systems
The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computing facility with telecommunications access to seven remote sites, including the four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by advanced office automation facilities. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and PAGER for typesetting and information retrieval.

The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CABI bibliographic database and associated functions, plus accessions control, subscription management and electronic publishing.

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